

Product Upgrade Announcement

Issue Date:	August 10, 2026	Category:	Technical Upgrade & Dimension Change
Target Audience:	Distributors, OEM Partners	Product Line:	PA Series Pressure Sensor

1. Background and Objective

Based on extensive field feedback across industrial automation, HVAC, and hydraulic systems, the Luksens Engineering Team has executed a comprehensive technical upgrade for the PA Series Pressure Sensors.

In conventional PA Series designs, connection cables were directly soldered to the internal sensor PCB. Under high-vibration conditions, thermal cycling, or severe tension during field wiring, solder joints suffered from potential mechanical fatigue and disconnection. To permanently address this, Luksens has integrated an advanced Strain-Relief Bridging Mechanism into the upgraded PA Series, dramatically enhancing durability, seal integrity, and operational lifespan.

2. Core Technical Upgrades Comparison

Feature Element	Legacy PA Series Desig	Upgraded PA Series Design
Cable Connection Structure	Direct cable-to-PCB soldering/connection. Vulnerable to external tension and physical pulling.	Integrated Strain-Relief Bridging Incorporates an intermediate bridging anchor that completely isolates tensile stress from the internal PCB.
Ingress Protection Rating	Standard IP65 Protection	Provides complete dust tightness and continuous submersion capability in demanding environments.
Operational Lifespan	Standard industry fatigue limits	Vastly enhanced resistance to wire pulling, bending fatigue, and severe mechanical vibration. Significantly Extended Dramatically eliminates wire-fatigue and stress-induced connection failures.

3. Mechanical Dimensions & Form Factor Change

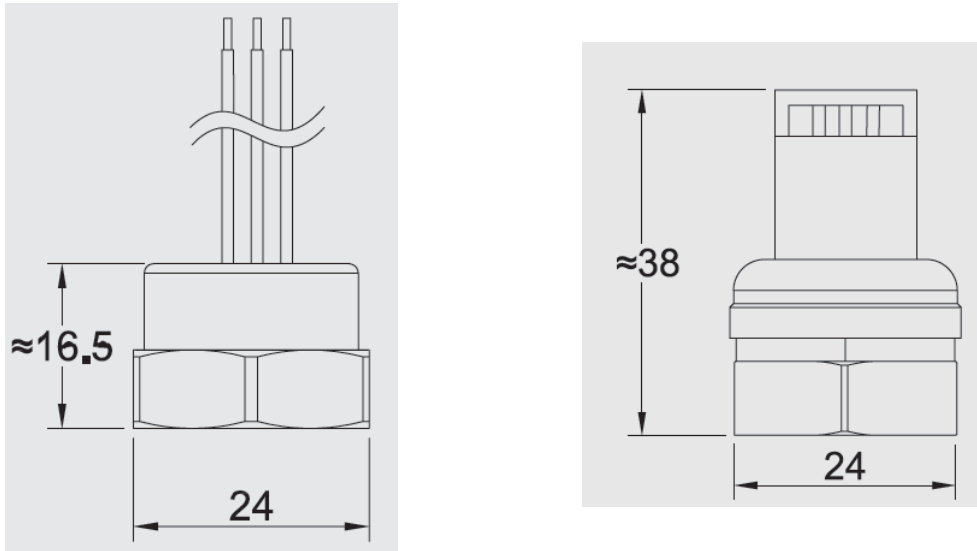


Figure 1: Dimensional Comparison — Legacy Design (Left, Body Height ≈ 16.5 mm) vs. Upgraded Design (Right, Body Height ≈ 38 mm).

Total Body Height: Height increases from ≈ 16.5 mm (legacy) to ≈ 38 mm (upgraded PA Series).

4. Instructions for Distributors & Partners

Action Items for Sales Partners & Integrators:

- Website & Marketing Collateral Updates: Update official datasheets, online product option lists, and promotional materials to reflect the new strain-relief option and revised height specification.
- Customer Communication: Inform existing OEM clients and system integrators of this enhancement as a standard feature upgrade for upcoming production orders.
- System Integration & Compatibility: While the electrical pinouts remain compatible, mechanical enclosure designs must accommodate the increased body height (≈ 38 mm).

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